

**DEEP CREEK HYDROELECTRIC STATION
MARYLAND DEPARTMENT of the ENVIRONMENT
WATER APPROPRIATION PERMIT NO. GA92S009 (03)
GARRETT COUNTY, MARYLAND**

ANNUAL REPORT for 2000

January 2001

BY

RELIANT ENERGY MARYLAND HOLDINGS, LLC

**DEEP CREEK HYDROELECTRIC STATION
MDE WATER APPROPRIATION PERMIT NO. GA92S009 (03)
ANNUAL REPORT for 2000**

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**DEEP CREEK HYDROELECTRIC STATION
MDE WATER APPROPRIATION PERMIT NO. GA92S009 (03)
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1.0 SUMMARY

Reliant Energy Maryland Holdings, LLC (Permittee) holds Water Appropriation Permit GA92S009(03) issued by the Maryland Department of the Environment (Department). Permit GA92S009(03) provides for the continued operation of the Deep Creek Hydroelectric Station previously owned and operated by Sithe Maryland Holdings LLC and Pennsylvania Electric Company. Operation of the facility under Sithe ownership commenced on November 24, 1999. Reliant Energy commenced operation on May 12, 2000.

Permit Condition 23 of the permit requires the Permittee to submit an annual report to the Department, including data and information as specified in Permit Conditions 15-19 and 21. This report covers operation of Deep Creek Station under both Sithe and Reliant ownership.

1.1 Lake Level Monitoring

Appendix A contains daily water level data and a plot depicting lake levels for 2000. Lake levels exceeded the desired end of the month Upper Rule Band by 0.2 feet in May, 0.1 feet in June and 0.1 feet in July. When viewed as a continuous rule band, Reliant maintained the reservoir level above or near the Upper Rule Band for most of June, July and August for maintenance on the emergency spillway and intake structures.

1.2 Temperature Monitoring

The Department approved a "Water Temperature Enhancement Plan" for Deep Creek Station on June 8, 1996. The Plan was designed to maintain river water temperatures below 25°C in the Youghiogheny River. In accordance with the Plan, the Permittee monitored water temperature in the Youghiogheny River at the Sang Run Bridge from June 1 through August 31, 2000.

The Permittee released water in accordance with the Water Temperature Enhancement Plan on eight days in 2000. Four of the releases were 2-hours and four were 1-hour in duration. River water temperatures exceeded 25°C on three days in 2000. Temperatures reached a high of 26.4°C on July 2, 26.2°C on July 8 and 26.7°C on August 2. Temperature enhancement releases occurred on July 2 and July 8 in accordance with the Plan. The Plan did not require a temperature enhancement release on August 2. Temperature data collected during 2000 and copies of the daily log sheets for the eight release days and August 2 are included in Appendix B.

1.3 Minimum Flow Release Monitoring

The Permittee operated the flow bypass in accordance with the "Deep Creek Station Flow Bypass Operation Protocol, May 1995". Due to adequate natural river flows, flow bypasses were not required in 2000. A record of the U.S. Geological Survey data from the Oakland gaging station is presented in Appendix C.

1.4 Dissolved Oxygen (DO) Monitoring

The Permittee operated the dissolved oxygen enhancement weir during 2000 in accordance with the "Dissolved Oxygen (DO) Enhancement Operations and

Monitoring Protocol" approved by the Department on January 6, 1995. Data obtained from monitoring DO in 2000 is included in Appendix D.

The Permittee operated the tailrace weir with all gates open until DO levels fell below 6.0 mg/l. This occurred on July 17 when the Permittee measured DO levels of 5.65 mg/l. As a result of the low reading, the Permittee operated the weir with two sluice gates closed and two open about one foot. No other DO measurements were below 6.0 mg/l.

1.5 Releases Unsuitable for Whitewater Recreation

Permit Condition 19 outlines several operating rules designed to enhance whitewater boating opportunities in the Youghiogheny River. One operating rule restricts generation during certain times of the day unless flows suitable for whitewater boating also occur.

The specific criteria for this operating rule:

- apply only from April 15 through October 15,
- apply only when the lake is between the upper and lower rule bands,
- may be suspended during emergency conditions described in Condition 14, and
- prohibit releases between 1600 hours and 0800 hours of the following morning unless:
 1. a release providing 3 consecutive hours suitable for whitewater boating occurs during the 0800 to 1600 hour period immediately preceding the release.
 2. a release providing 3 consecutive hours suitable for whitewater boating occurs during the 0800 to 1600 hour period immediately following the release.

Condition 19 requires the Permittee to document "times and dates when generation releases not suitable for whitewater recreation occurred." Using the criteria above, generation releases not suitable for whitewater recreation did not occur during 2000.

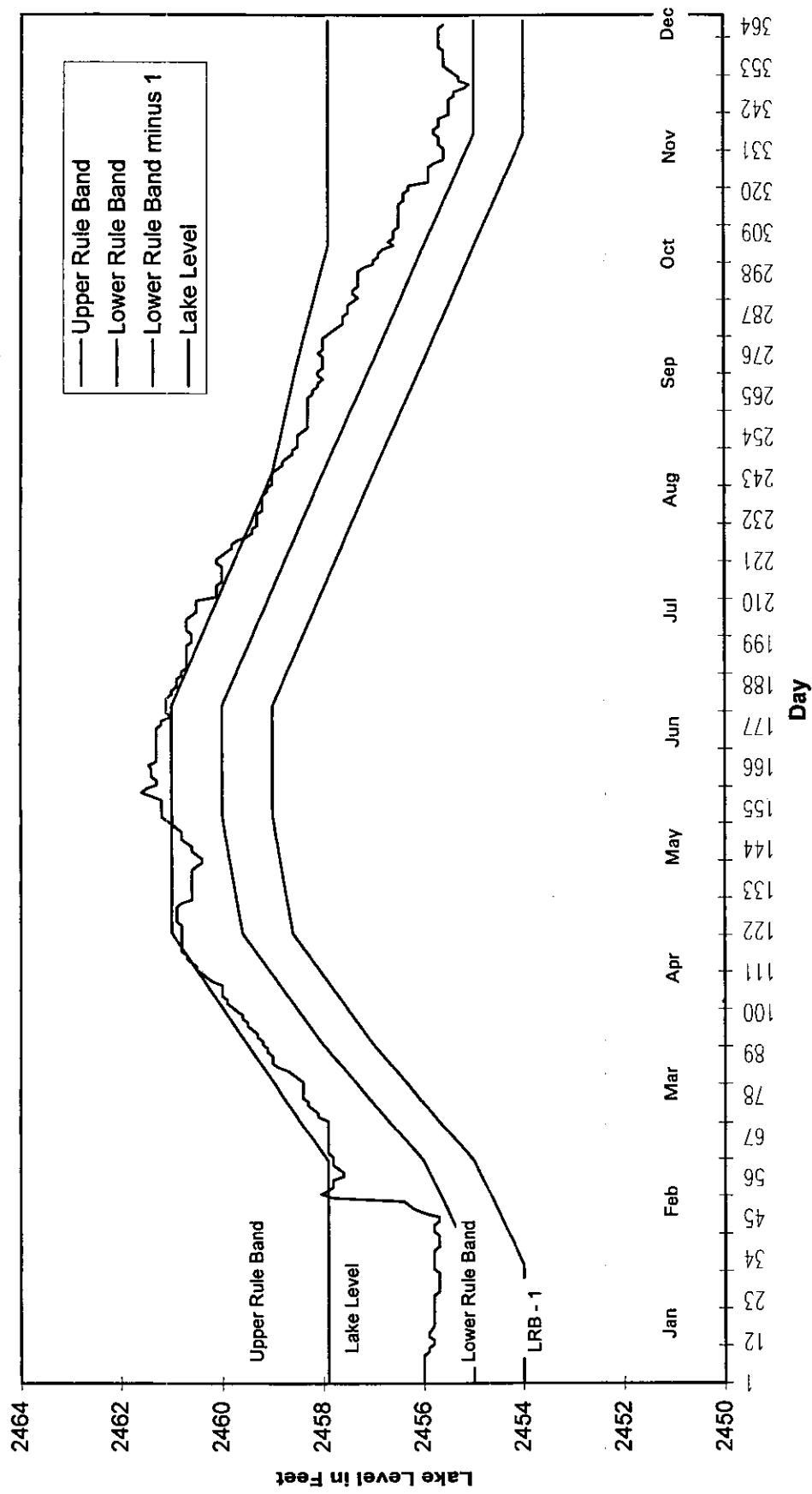
1.6 Zebra Mussel Monitoring

Artificial substrates placed at the station intake area during 2000 showed no signs of the zebra mussel infestation.

APPENDIX A

LAKE LEVEL DATA AND PLOT

Deep Creek Lake Level



Deep Creek Lake Level 2000

Month	Day	Lake Level		Rain Fall		Month	Day	Lake Level		Rain Fall		Month	Day	Lake Level		Rain Fall	
		Jan	Feb	Mar	Apr			May	Jun	Jul	Aug			Sep	Oct	Nov	Dec
1	2456	0		2455.8	0.11	2	2455.8	0.2	2455.8	0.12	3	2455.8	0.1	2457.8	0.1	2457.8	0.1
2	2456	0		2455.8	0.2	3	2455.8	0.12	2455.8	0.1	4	2455.8	0.1	2457.9	0	2457.9	0
3	2456	0		2455.8	0.2	4	2455.8	0.1	2455.8	0.27	5	2455.8	0.27	2457.9	0	2457.9	0
4	2456	0.33		2455.8	0.2	5	2455.8	0.27	2455.7	0	6	2455.7	0	2457.9	0	2457.9	0
5	2456	0.14		2455.8	0.27	6	2455.7	0	2455.7	0	7	2455.7	0	2457.9	0	2457.9	0
6	2456	0		2455.7	0	8	2455.7	0	2455.7	0	9	2455.7	0	2457.9	0	2457.9	0
7	2456	0		2455.7	0	10	2455.8	0	2455.8	0	11	2455.8	0.45	2457.9	1.27	2457.9	1.27
8	2456	0.02		2455.8	0.45	12	2455.8	0	2455.8	0	13	2455.7	0.45	2458.1	0	2458.1	0
9	2455.9	0.04		2455.7	0.45	14	2455.7	0.94	2455.7	0.94	15	2455.7	0.94	2458.2	0	2458.2	0
10	2455.9	0.25		2455.8	0.25	16	2456.2	0.05	2456.2	0.05	17	2456.3	0.05	2458.3	0.12	2458.3	0.12
11	2455.8	0.22		2455.8	0.22	18	2456.4	3.45	2456.4	3.45	19	2457.8	0.2	2458.4	0	2458.4	0
12	2455.8	0		2455.8	0	20	2458.05	0.08	2458.05	0.08	21	2457.9	0	2458.4	1.11	2458.4	1.11
13	2455.9	0.48		2455.8	0.48	22	2457.8	0	2457.8	0	23	2457.8	0	2458.5	0.03	2458.5	0.03
14	2455.9	0.05		2455.8	0.05	24	2457.8	0	2457.8	0	25	2457.6	0	2458.9	0.13	2458.9	0.13
15	2455.85	0		2455.8	0	25	2457.6	0	2457.6	0	26	2457.6	0	2459	0	2459	0
16	2455.8	0		2455.8	0	27	2457.7	0.5	2457.7	0.5	28	2457.8	0	2459	0.06	2459	0.06
17	2455.8	0		2455.8	0.15	28	2457.8	0	2457.8	0	29	2457.8	0	2459.1	0.06	2459.1	0.06
18	2455.8	0		2455.8	0.59	29	2457.8	0	2457.8	0	30	2459.1	0	2459.2	0	2459.2	0
19	2455.8	0.04		2455.8	0.06	31	2455.8	0.31	2455.8	0.31	Total	2.96					

Deep Creek Lake Level 2000

Apr	May	Jun		Total
		1	2	
1	2459.2	0	2460.8	0.25
2	2459.3	0.42	2460.8	0.47
3	2459.3	0.05	2460.9	0
4	2459.4	0.09	2460.9	0
5	2459.5	0	2460.9	0
6	2459.5	0	2460.9	0
7	2459.6	0	2460.9	0
8	2459.6	0.6	2460.8	0
9	2459.7	0.15	2460.6	0
10	2459.8	0	2460.6	0
11	2459.9	0.35	2460.6	0
12	2459.9	0.1	2460.6	0
13	2460	0	2460.6	0.53
14	2460	0	2460.6	0
15	2460	0	2460.6	0
16	2460	0	2460.6	0
17	2460.2	0.88	2460.6	0
18	2460.3	0.03	2460.5	0
19	2460.4	0	2460.4	1.28
20	2460.5	0.03	2460.4	0.47
21	2460.5	0.4	2460.5	0.04
22	2460.6	0.32	2460.6	0.02
23	2460.7	0.07	2460.6	0.96
24	2460.7	0	2460.7	0.13
25	2460.8	0	2460.8	0
26	2460.8	0	2460.8	0
27	2460.8	0	2460.8	0.55
28	2460.8	0	2460.9	0.77
29	2460.8	0	2461	0.03
30	2460.8	0	2461.1	0
31			2461.2	0
				5.5
			Total	3.49
				5.36

Deep Creek Lake Level 2000

Month	Day	Lake Level		Rain Fall		Lake Level		Rain Fall		Lake Level		Rain Fall			
		Month	Day	Aug	1	2460.1	0	Sep	1	2458.9	0	Oct	2	2458.8	0.1
Jul	1	2461.1	0			2460	0			2458.8	0.05			2458.8	0.05
	2	2461.1	0			2460	0			2458.8	0.05			2458.8	0.05
	3	2461	0.25			2460	0			2458.8	0.05			2458.8	0.05
	4	2461	0.05			2460	0.15			2458.7	0			2458.7	0
	5	2460.9	0			2460	0.15			2458.6	0			2458.6	0
	6	2460.9	0.02			2460	0			2458.6	0			2458.6	0
	7	2460.9	0			2460.1	1.75			2458.5	0			2458.5	0
	8	2460.8	0			2460.1	0.05			2458.5	0			2458.5	0
	9	2460.8	0			2460	0.5			2458.5	0			2458.5	0
	10	2460.7	0.55			2459.9	0.05			2458.5	0.5			2458.5	0.5
	11	2460.7	0.05			2459.8	0.05			2458.4	0.05			2458.4	0.05
	12	2460.7	0			2459.8	0.05			2458.3	0.15			2458.3	0.15
	13	2460.7	0			2459.7	0			2458.3	0			2458.3	0
	14	2460.7	0			2459.5	0			2458.3	0			2458.3	0
	15	2460.7	0.8			2459.4	0.05			2458.3	0.3			2458.3	0.3
	16	2460.7	0.45			2459.4	0			2458.3	0.15			2458.3	0.15
	17	2460.6	0			2459.3	0			2458.3	0			2458.3	0
	18	2460.6	0			2459.3	0.5			2458.3	0			2458.3	0
	19	2460.6	1.5			2459.3	0			2458.3	0.15			2458.3	0.15
	20	2460.7	0			2459.3	0			2458.3	0.15			2458.3	0.15
	21	2460.7	0			2459.2	0			2458.2	0.05			2458.2	0.05
	22	2460.7	0.05			2459.2	0			2458.2	0.05			2458.2	0.05
	23	2460.7	0			2459.2	0.35			2458.1	0.05			2458.1	0.05
	24	2460.6	0.18			2459.2	0.05			2458.1	0.25			2458.1	0.25
	25	2460.5	0			2459.2	0.05			2458	2.15			2458	2.15
	26	2460.5	0			2459.1	0			2458.1	0.2			2458.1	0.2
	27	2460.5	0			2459.1	0.1			2458.1	0			2458.1	0
	28	2460.5	0.1			2459	0			2458	0			2458	0
	29	2460.1	0.05			2459	0			2458	0			2458	0
	30	2460.1	0.1			2459	0			2458	0			2458	0
	31	2460.1	1.6			2459	0			2458	0			2458	0
										3.85					
										5.75					
												Total			

4.35

Deep Creek Lake Level 2000

Date	2000		2000
	Day	Month	
Oct 1	2458	0	2456.7
Oct 2	2458.1	0	2456.6
Oct 3	2458	0	2456.6
Oct 4	2458	0	2456.6
Oct 5	2458	0	2456.5
Oct 6	2458	0.07	2456.5
Oct 7	2457.9	0.03	2456.5
Oct 8	2457.8	0	2456.5
Oct 9	2457.7	0.1	2456.5
Oct 10	2457.6	0.05	2456.5
Oct 11	2457.6	0	2456.5
Oct 12	2457.6	0	2456.4
Oct 13	2457.5	0	2456.4
Oct 14	2457.5	0	2456.4
Oct 15	2457.5	0	2456.3
Oct 16	2457.4	0	2456.3
Oct 17	2457.3	0.2	2455.9
Oct 18	2457.4	0.75	2455.9
Oct 19	2457.4	0	2455.9
Oct 20	2457.3	0	2455.9
Oct 21	2457.3	0	2455.9
Oct 22	2457.3	0	2455.8
Oct 23	2457.3	0	2455.6
Oct 24	2457.3	0.05	2455.6
Oct 25	2457.2	0	2455.6
Oct 26	2457	0	2455.6
Oct 27	2457	0	2455.7
Oct 28	2456.9	0	2455.7
Oct 29	2456.9	0	2455.7
Oct 30	2456.8	0	2455.8
Oct 31	2456.6	0	2455.8
Total			1.25
			2.85
			2.44
			48.99

APPENDIX B

TEMPERATURE MONITORING AND RELEASE REPORTS

MAXIMUM DAILY RIVER WATER TEMPERATURES

Daily maximum river water temperatures in the Youghiogheny River at Sang Run are presented on the following table. The data were collated and provided by Versar, Inc., consultant to the MDNR Power Plant Assessment Division (PPAD).

The column labeled "SMAX" lists the arithmetic means of the daily maximum water temperatures, in degrees C, measured by two "Tempmentors" placed in the river by the MDNR. The column labeled "PenMAX" lists the maximum water temperatures, in degrees C, measured by the Permittee's temperature monitor at the Sang Run Bridge. PPAD and Versar analyze the data to evaluate the Water Temperature Enhancement Plan used by the Permittee to determine the need and timing of daily temperature releases.

Deep Creek Power Plant made 8 temperature enhancement releases in 2000. Temperatures at Sang Run exceeded 25°C on 3 days during 2000. Copies of the temperature enhancement data sheets for these days are enclosed. The data sheets list the incorrect river flow for the day. River flows logged by the operator and used in the calculations are listed on Table B-2. Days when temperatures exceeded 25°C are listed on Table B-1. Days when temperature enhancement releases were made are summarized in Table B-2.

Table B-1
Summary of Temperatures Exceeding 25 C

Date	Start Time	Duration	Max Temp (C)
July 2	1540	2 h, 10 min	26.4
July 8	1600	1 h, 30 min	26.2
Aug 2	1440	4 h, 10 min	26.7

Table B-2
Dates & Times of Temperature Enhancement Releases

Date	Start Time	Duration	River Flow (cfs)
June 21	1100	2 hours	87
June 25	1230	2 hours	94
July 2	1530	1 hour	60
July 4	1100	2 hours	73
July 6	1200	1 hour	62
July 8	1502	1 hour	36
July 9	1230	2 hours	29
August 10	1220	1 hour	99

Deep Creek Station
Youghiogheny River Temperature Data - 2000

June	Smax	PenSmax	July	Smax	PenSmax	August	Smax	PenSmax
1	20.4	21.1	1	21.1	24.8	1	24.3	24.8
2	26.3	26.4	2	26.4	26.7	2	26.3	26.7
3	19.7	19.4	3	19.4	23.4	3	23.1	23.4
4	22.1	22.9	4	22.9	22.4	4	22.0	22.4
5	23.7	24.7	5	24.7	22.8	5	21.5	22.8
6	24.5	23.6	6	23.6	20.1	6	20.0	20.1
7	21.8	22.3	7	22.3	20.8	7	20.8	20.8
8	25.5	26.2	8	26.2	21.1	8	21.4	21.1
9	24.2	23.8	9	23.8	24.5	9	24.5	24.2
10	20.9	21.2	10	21.2	24.1	10	24.3	24.1
11	21.5	21.7	11	21.7	20.5	11	20.5	20.5
12	20.7	21.6	12	21.6	22.9	12	22.9	23.9
13	21.5	22.3	13	22.3	21.4	13	21.1	21.4
14	21.9	22.3	14	22.3	21.7	14	21.1	21.7
15	22.0	22.6	15	22.6	23.5	15	22.9	23.6
16	22.5	22.4	16	22.4	23.1	16	22.9	23.1
17	21.2	21.8	17	21.8	20.0	17	19.8	20.0
18	23.2	23.5	18	23.5	19.0	18	18.6	19.0
19	19.8	20.4	19	20.4	22.4	19	22.0	22.4
20	18.4	19.1	20	19.1	23.6	20	22.6	23.6
21	18.2	19.1	21	19.1	22.3	21	21.4	22.3
22	20.1	20.7	22	20.7	23.4	22	23.4	23.9
23	19.8	19.7	23	19.7	20.5	23	19.6	20.5
24	17.6	18.2	24	18.2	21.6	24	21.5	21.6
25	20.8	20.6	25	20.6	20.4	25	20.6	20.4
26	19.6	20.1	26	20.1	23.8	26	23.8	24.4
27	19.1	19.6	27	19.6	21.3	27	20.8	21.3
28	20.9	20.2	28	20.2	21.6	28	20.8	21.6
29	21.4	21.6	29	21.6	20.4	30	21.8	20.7
30	23.4	22.9	30	22.9	20.3	31	22.3	20.6

Youghiogheny River Water Temperature Enhancement Plan

254 = CFS River Flow at Oakland

June 21, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30 <=30	16.86 25.82	No further predictions necessary today Check again at 0900
0900	> 30 <=30	17.34 26.30	No further predictions necessary today Release at 1100 for 2 hours
1100	All	-3.60	No further predictions necessary today
1200	All	2.37	No further predictions necessary today
1400	All	6.25	No further predictions necessary today
1500	All	4.36	No further predictions necessary today

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Tair	26.11	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	19.24	River Temp Sang Run @700
T9	19.61	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	254.00	River Flow at Oakland

79 Air Temp, Elkins WV - Degree F
SUNNY Cloud Cover, Elkins WV

Youghiogheny River Water Temperature Enhancement Plan

88 = CFS River Flow at Oakland

June 25, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30 <=30	23.40 25.72	Check again at 0900 Check again at 0900
0900	> 30 <=30	23.57 25.89	Check again at 1100 Check again at 1100
1100	All	25.72	Release at 1230 for 2 hours
1200	All	2.48	No further predictions necessary today
1400	All	6.42	No further predictions necessary today
1500	All	4.44	No further predictions necessary today

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Tair	27.78	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	19.33	River Temp Sang Run @700
T9	19.55	River Temp Sang Run @900
T11	20.97	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	88.00	River Flow at Oakland

82 Air Temp, Elkins WV - Degree F
PTCLDY Cloud Cover, Elkins WV

Youghiogheny River Water Temperature Enhancement Plan

51 = CFS River Flow at Oakland

July 2, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30 <=30	24.40 25.24	Check again at 0900 Check again at 0900
0900	> 30 <=30	24.45 25.29	Check again at 1100 Check again at 1100
1100	All	24.17	Check again at 1200
1200	All	24.12	Check again at 1400
1400	All	24.78	Check again at 1500
1500	All	25.75	Release ASAP - not later than 1530 for 1 hour

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Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	17.00	River Temp Sang Run @700
T9	17.20	River Temp Sang Run @900
T11	18.40	River Temp Sang Run @1100
T12	19.40	River Temp Sang Run @1200
T14	22.21	River Temp Sang Run @1400
T15	24.05	River Temp Sang Run @1500
Q	51.00	River Flow at Oakland

80
SUNNY Air Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

Youghiogheny River Water Temperature Enhancement Plan

79 = CFS River Flow at Oakland

July 4, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30 <= 30	24.18 26.14	Check again at 0900 Check again at 0900
0900	> 30 <= 30	24.16 26.12	Check again at 1100 Release at 1100 for 2 hours
1100	All	-2.71	No further predictions necessary today
1200	All	3.03	No further predictions necessary today
1400	All	6.59	No further predictions necessary today
1500	All	4.52	No further predictions necessary today

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Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	18.96	River Temp Sang Run @700
T9	19.11	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	79.00	River Flow at Oakland

85	Air Temp, Elkins WV - Degree F
PTCLDY	Cloud Cover, Elkins WV

Youghiogheny River Water Temperature Enhancement Plan

45 = CFS River Flow at Oakland

July 6, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30 <=30	25.03 25.63	Check again at 0900 Check again at 0900
0900	> 30 <=30	24.84 25.44	Check again at 1100 Check again at 1100
1100	All	25.32	Check again at 1200
1200	All	25.53	Release ASAP - not later than 1230 for 1 hour
1400	All	-6.35	No further predictions necessary today
1500	All	-2.20	No further predictions necessary today

[Print Info for file](#)

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	18.14	River Temp Sang Run @700
T9	18.06	River Temp Sang Run @900
T11	19.74	River Temp Sang Run @1100
T12	21.10	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	45.00	River Flow at Oakland

80 Air Temp, Elkins WV - Degree F
SUNNY Cloud Cover, Elkins WV

Youghiogheny River Water Temperature Enhancement Plan

29 = CFS River Flow at Oakland

July 8, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30 <=30	24.70 24.66	Check again at 0900 Check again at 0900
0900	> 30 <=30	24.88 24.84	Check again at 1100 Check again at 1100
1100	All	23.20	Check again at 1200
1200	All	23.62	Check again at 1400
1400	All	24.80	Check again at 1500
1500	All	25.79	Release ASAP - not later than 1530 for 1 hour

[Print Info for file](#)

Tair	25.56	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	16.33	River Temp Sang Run @700
T9	16.66	River Temp Sang Run @900
T11	17.58	River Temp Sang Run @1100
T12	18.93	River Temp Sang Run @1200
T14	22.10	River Temp Sang Run @1400
T15	24.00	River Temp Sang Run @1500
Q	29.00	River Flow at Oakland

78 Air Temp, Elkins WV - Degree F
SUNNY Cloud Cover, Elkins WV

Youghiogheny River Water Temperature Enhancement Plan

26 = CFS River Flow at Oakland

July 9, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30 <=30	25.95 25.79	Check again at 0900 Check again at 0900
0900	> 30 <=30	25.87 25.71	Check again at 1100 Check again at 1100
1100	All	25.51	Release at 1230 for 2 hours
1200	All	4.60	No further predictions necessary today
1400	All	6.59	No further predictions necessary today
1500	All	4.52	No further predictions necessary today

[Print Info for file](#)

Tair	29.44	Air Temp, Elkins WV - Degree C
CCF	1.00	Cloud Cover Factor, Elkins WV
T7	15.98	River Temp Sang Run @700
T9	16.24	River Temp Sang Run @900
T11	18.30	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	26.00	River Flow at Oakland

85 Air Temp, Elkins WV - Degree F
SUNNY Cloud Cover, Elkins WV

Youghiogheny River Water Temperature Enhancement Plan

86 = CFS River Flow at Oakland

August 2, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30 <=30	23.35 25.59	Temperature Plan not required today Temperature Plan not required today
0900	> 30 <=30	-0.79 1.45	Temperature Plan not required today Temperature Plan not required today
1100	All	12.43	Temperature Plan not required today
1200	All	11.00	Temperature Plan not required today
1400	All	6.31	Temperature Plan not required today
1500	All	4.39	Temperature Plan not required today

[Print Info for file](#)

Tair	26.67	Air Temp, Elkins WV - Degree C
CCF	36.00	Cloud Cover Factor, Elkins WV
T7	19.98	River Temp Sang Run @700
T9	0.00	River Temp Sang Run @900
T11	0.00	River Temp Sang Run @1100
T12	0.00	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	86.00	River Flow at Oakland

80 PTCLDY Air Temp, Elkins WV - Degree F
Cloud Cover, Elkins WV

Youghiogheny River Water Temperature Enhancement Plan

94 = CFS River Flow at Oakland

August 10, 2000

Time	Oakland Flow CFS	Predicted Maximum River Water Temperature Degree C	Deep Creek Action
0700	> 30 <=30	22.41 24.97	No further predictions necessary today Check again at 0900
0900	> 30 <=30	22.67 25.23	No further predictions necessary today Check again at 1100
1100	All	25.14	Check again at 1200
1200	All	25.61	Release ASAP - not later than 1230 for 1 hour
1400	All	-7.10	No further predictions necessary today
1500	All	-2.59	No further predictions necessary today

[Print Info for file](#)

Tair	28.33	Air Temp, Elkins WV - Degree C
CCF	100.00	Cloud Cover Factor, Elkins WV
T7	20.17	River Temp Sang Run @700
T9	20.53	River Temp Sang Run @900
T11	21.49	River Temp Sang Run @1100
T12	22.63	River Temp Sang Run @1200
T14	0.00	River Temp Sang Run @1400
T15	0.00	River Temp Sang Run @1500
Q	94.00	River Flow at Oakland

83 Air Temp, Elkins WV - Degree F
TSTRMS Cloud Cover, Elkins WV



APPENDIX C

FLOW BYPASS OPERATION RECORD

FLOW BYPASS OPERATION

The flow bypass protocol requires the Permittee to maintain a minimum flow of 40 cfs in the Youghiogheny River immediately downstream of the tailrace. Starting June 1 and continuing through November 30, the Permittee monitors the river flows at the Oakland gage. When flows at the Oakland gage fall below 26 cfs, the Permittee may be required to open a bypass valve to release enough water to maintain 40 cfs in the river immediately below the tailrace.

The following table summarizes flow bypass data for June through November 2000, when flows in the Youghiogheny River were less than 26 cfs. Flow data were obtained from the USGS recording at the Oakland gage, direct readings from the USGS Oakland gage or from the tailrace gage at the station per guidance provided in the protocol. Valve opening was determined from Table 3 of the protocol based on station operating status.

Data from the USGS gaging station at Oakland also are provided. Data for the period of October 1, 2000 through the end of the year are provisional data. USGS data represent daily mean flows and may not agree with instantaneous data collected by the Permittee throughout the year.

Deep Creek Station
Flow Bypass Operation - 2000

Month	Day	Flow at Oakland	Bypass Operation	
			Bypass Flow	% Open
Sept	9	24	0	CLOSED
Sept	10	23	0	CLOSED
Sept	15	24	0	CLOSED
Sept	18	24	0	CLOSED
Sept	19	23	0	CLOSED
Sept	22	23	0	CLOSED
Sept	23	21	0	CLOSED
Sept	24	20	0	CLOSED
Oct	27	0	0	CLOSED

MONONGAHELA RIVER BASIN

1

03075500 YOUGHIOGHANY RIVER NEAR OAKLAND, MD

LOCATION.--Lat 39°25'19", long 79°25'32", Garrett County, Hydrologic unit 05020006, on left bank 200 ft downstream from Baltimore and Ohio Railroad bridge, 250 ft downstream from Little Youghiogheny River, 1.2 mi northwest of Oakland, and 1.5 mi upstream from Dunkard Lick Run.

DRAINAGE AREA.--134 mi².

PERIOD OF RECORD.--August 1941 to current year.

REVISED RECORDS.--WSP 1113, 1947(M).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 2,353.61 ft above sea level. Prior to Aug. 1, 1946, nonrecording gage at bridge 200 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges (ice effect), which are poor. Town of Oakland diverted an average of 0.4 ft³/s for water supply. The diversion is returned upstream from station as sewage. U.S. Army Corps of Engineers satellite collection platform at station. Several measurements of water temperature were made during the year. Water-quality records for some prior periods have been collected at this location.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1936 reached a stage of 15.3 ft, from floodmarks.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft³/s and maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)	Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Feb 14	2115	2,970	6.01				
Feb 19	0700	*9,450	*10.50	Jul 11	1145	2,300	5.37

Minimum discharge 17 ft³/s, Oct 4.DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	44	19	175	e85	e72	289	220	125	222	63	171	32
2	24	101	145	e82	e70	265	217	190	177	53	96	65
3	18	647	131	e95	e66	224	261	157	172	48	149	60
4	32	244	134	e110	e64	197	1120	128	131	88	187	58
5	71	195	133	e120	e62	176	1150	118	132	70	111	54
6	52	172	123	e110	e60	154	742	110	1460	51	151	43
7	33	134	127	e100	e59	139	498	100	1320	39	166	33
8	25	105	111	e100	e58	127	460	92	715	32	114	27
9	23	87	106	e95	e57	120	380	97	407	28	92	24
10	219	73	324	e160	e56	127	466	76	270	36	98	24
11	205	67	574	276	e170	172	431	66	208	1860	84	41
12	90	59	346	246	e400	687	607	60	161	739	70	37
13	53	52	343	e200	e250	441	481	58	138	268	59	33
14	52	48	724	e180	e180	344	387	58	114	175	53	27
15	46	44	986	e163	2990	281	316	52	138	198	48	26
16	33	41	651	e160	1160	252	266	47	164	148	42	30
17	27	39	426	e160	1010	326	340	43	104	232	38	27
18	23	37	311	e170	910	275	350	41	115	144	67	24
19	22	35	248	e150	7430	244	291	72	150	524	87	23
20	22	35	214	e130	2580	222	253	151	113	1200	55	26
21	24	62	193	e120	1190	371	279	101	103	553	41	26
22	23	54	166	e130	786	696	340	88	257	307	37	22
23	22	53	141	e120	591	746	571	85	138	212	34	20
24	31	49	119	e110	480	641	478	289	104	174	50	22
25	50	85	105	e100	407	489	363	170	87	154	48	182
26	40	68	98	e90	336	371	286	121	83	121	38	1100
27	30	980	101	*85	284	296	234	113	78	103	33	344
28	25	505	96	90	516	269	201	412	123	88	37	197
29	23	303	94	80	329	279	171	945	113	78	33	142
30	20	223	90	e77	---	290	146	509	80	76	31	111
31	19	---	e88	e75	---	254	---	325	---	127	29	---
TOTAL	1421	5206	7627	3971	24393	9764	12525	4999	7577	7999	2349	2881
MEAN	45.8	174	246	128	861	315	418	161	253	259	75.8	96.0
MAX	219	980	986	276	7430	746	1150	945	1460	1860	187	1100
MIN	18	19	88	75	56	120	146	41	78	28	29	20
CFSM	.34	1.30	1.84	.96	6.28	2.35	3.12	1.20	1.88	1.93	.57	.72
IN.	.39	1.45	2.12	1.10	6.77	2.71	3.48	1.39	2.10	2.32	.65	.80

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1941 - 2000, BY WATER YEAR (WY)

	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954
MEAN	114	341	403	434	504	610	450	330	204	162	130	86.8		
MAX	608	1152	1027	973	1100	1477	879	995	730	629	586	600		
(WY)	1945	1986	1973	1996	1986	1963	1973	1996	1981	1978	1956	1996		
MIN	4.45	7.08	62.2	63.2	127	168	121	76.0	22.9	10.3	10.5	5.99		
(WY)	1954	1954	1944	1977	1978	1990	1945	1992	1999	1953	1944	1953		

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES - DIVISION
PRIMARY COMPUTATIONS OF GAGE HEIGHT AND DISCHARGE
DATE PROCESSED: 01-12-2001 @ 14:46 BT Jeffries
INPUT DU: SAT-CNT
OUTPUT PARAMETER 00160 SNORE STATISTIC(S) 00003
PROVISIONAL DATA FOR WATER YEAR ENDING SEPT. 30, 2001

STATE 24 DIST 24
RATINGS USED --
STND 18.0 03/18/1999 (2315)

MAX GH MIN GH DATE /DISCH /DISCH <TIME> <TIME>

MAX GH	MIN GH	DATE	/DISCH	/DISCH	MEAN GH	MEAN DISCH	SHIFT ADJ	DATUM CORR	STAGE, IN HUNDREDS OF FEET, AT INDICATED HOURS	TEST DIFF: ****	STRETCH INTERVAL: 60 MIN		
99	82	10/01/2000	2.36	2.29	2.33	91	0.00W	236	236 335 235 235 235 234 233 233 233	230	229 229		
<0000> <2400>	<0000> <2400>	10/02/2000	2.29	2.24	2.27	77	0.00W	228	228 228 228 228 228 228 228 228 228	227	227		
62	70	10/03/2000	<0000> <2159>	<0000> <2159>	2.24	2.20	67	0.00W	224	224 224 224 224 224 224 223 223 223	224	224	
70	62	10/04/2000	2.20	2.16	2.18	59	0.00W	220	220 220 220 220 220 220 220 220 220	219	219 219		
62	54	10/05/2000	<0000> <1959>	<0859> <0000>	2.22	2.16	2.20	61	0.00W	216	216 216 216 216 216 216 216 216	216	216
66	54	<0859> <0000>						242	222 231 221 220 220 220 220 220	220	220 220		
62	54	10/06/2000	2.26	2.16	2.18	58	0.00W	220	220 220 220 220 220 220 219 219	218	218 218		
<0000> <1759>	<0000> <1759>	10/07/2000	2.17	2.08	2.11	45	0.00W	216	216 216 215 215 214 213 212 212	211	211 211		
56	39	<0000> <2159>	<0000> <2159>					211	210 210 210 209 209 209 209 209	208	208 208		
39	36	10/08/2000	2.08	2.06	2.07	38	0.00W	208	208 208 208 208 208 208 208 208	207	207 207		
<0000> <1659>	<0000> <1659>	10/09/2000	2.07	2.05	2.05	37	0.00W	206	206 206 206 206 206 206 205 205	206	206 206		
38	35	<0859> <0559>	<0000> <0000>					207	207 207 207 206 206 206 207 207	207	207 207		
38	38	10/10/2000	2.07	2.07	2.07	38	0.00W	207	207 207 207 207 207 207 207 207	207	207 207		
38	35	<0000> <0000>						207	207 207 207 207 207 207 207 207	207	207 207		
35	32	10/11/2000	2.07	2.05	2.06	36	0.00W	207	206 206 206 206 206 206 206 206	205	205 205		
<0000> <2400>	<0000> <2400>	10/12/2000	2.05	2.03	2.04	33	0.00W	204	204 204 204 204 204 204 204 205	205	205 205		
32	30	<0759> <1859>	<0759> <1859>					205	205 204 204 204 204 204 203 203	203	203 203		
32	28	10/13/2000	2.03	2.00	2.02	30	0.00W	203	203 203 203 203 203 203 203 203	203	202 202		
<0000> <1859>	<0000> <1859>	10/14/2000	2.00	2.00	2.00	28	0.00W	200	200 200 200 200 200 200 200 200	200	200 200		
28	28	<0000> <0000>	<0000> <0000>					200	199 199 199 199 199 199 199 199	199	199 199		
28	28	<0000> <1359>						200	199 199 199 199 199 199 199 199	199	199 199		

Provisional

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION
 PRIMARY COMPUTATIONS OF GAGE HEIGHT AND DISCHARGE
 DATE PROCESSED: 01-12-2001 @ 14:16 BY Jeffries
 INPUT DD: SAT-GMT

03075100
 YOUNGJOHNSON RIVER NEAR OAKLAND, ND
 OUTPUT PARAMETER 01060 STORE STATISTICS(S) 00003
 PROVISIONAL DATA FOR WATER YEAR ENDING SEPT. 30, 2001

DATE	MAX GH /DISCH	MIN GH /DISCH	MEAN GH	MEAN DISCH	SHIFT	DATUM	STAGE, IN HUNDREDS OF FEET, AT INDICATED HOURS	TEST DIFF: *****	PUNCH INTERVAL: 60 MIN	
	<TIME>	<TIME>	<TIME>	<TIME>	ADJ	CORR	0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200	RATINGS USED --	STAND 18.0 03/18/1999 (2315)	
10/16/2000	1.99	1.98	1.99	28	0.00W	199 199 199 199 199 199 198 199 199 199 199 199	199 199 199 199 199 199 198 199 199 199 199 199			
	<0000> <0559>									
10/17/2000	2.01	1.99	1.99	28	0.00W	199 199 199 199 199 199 199 199 199 199 199 199	199 199 199 199 199 199 199 199 199 199 199 199			
	<0000> <0400>									
10/18/2000	2.82	2.01	2.45	115	-0.02W	202 205 208 211 211 212 215 220 228 236 244 264	276 281 282 284 286 288 278 276 273 269 267 263			
	241 30									
10/19/2000	2.60	2.25	2.38	104	-0.01W	257 255 252 249 247 245 243 241 240 238 237 236	235 233 232 231 231 229 228 227 227 226 225			
	162 73									
10/20/2000	2.25	2.16	2.21	63	0.00W	225 224 224 224 223 223 222 222 222 221 221 220	220 220 219 219 219 218 218 217 217 217 216			
	73 54									
10/21/2000	2.16	2.12	2.14	50	0.00W	216 216 216 215 215 215 215 215 215 215 215 214	214 213 213 213 213 212 212 212 212 212 212 212			
	54 46									
10/22/2000	2.12	2.09	2.10	43	0.00W	211 211 211 211 211 210 210 210 210 210 210 210	210 210 210 210 210 210 210 209 209 209 209 209			
	46 41									
10/23/2000	2.09	2.08	2.08	40	0.00W	208 208 208 208 208 209 209 209 209 209 209 209	209 208 208 208 208 208 208 208 208 208 208 208			
	41 39									
10/24/2000	2.08	2.07	2.07	39	0.00W	208 208 208 207 207 207 207 207 207 207 207 207	208 208 208 207 207 207 207 207 207 207 207 207			
	39 38									
10/25/2000	2.08	2.07	2.08	39	0.00W	207 207 207 207 207 208 208 208 208 208 208 208	208 208 208 207 207 207 207 207 207 208 208 208			
	39 38									
10/26/2000	2.08	2.07	2.07	38	0.00W	207 207 207 207 207 208 208 208 207 207 208 208	207 207 207 207 207 207 207 207 207 208 208 208			
	39 38									
10/27/2000	2.07	2.05	2.06	36	0.00W	207 206 206 206 206 205 205 205 205 205 205 205	207 207 207 207 207 207 207 207 207 207 207 205			
	38 35									
10/28/2000	2.05	2.05	2.05	35	0.00W	205 205 205 205 205 205 205 205 205 205 205 205	205 205 205 205 205 205 205 205 205 205 205 205			
	35 35									
10/29/2000	2.05	2.04	2.04	34	0.00W	205 205 205 205 205 204 204 204 204 204 204 204	205 205 205 205 205 204 204 204 204 204 204 204			
	35 33									
10/30/2000	2.04	2.03	2.03	32	0.00W	204 204 204 204 204 203 203 203 203 203 203 203	204 203 203 203 203 203 203 203 203 203 203 203			
	33 32									
	<0000> <0559>									
	<0000> <0559>									

Provisional

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION STATE 24 DIST 24
PRIMARY COMPUTATIONS OF GAGE HEIGHT AND DISCHARGE RATINGS USED --

DATE PROCESSED: 01-12-2001 @ 14:26 BY Jeffries STARD 18.0 03/18/1999 (2315)

INPUT DB: SAT-GHT

030755Q0 YONKERS RIVER NEAR OAKLAND, MD

OUTPUT PARAMETER 00160 STORE STATISTIC(S) 00003

PROVISIONAL DATA FOR WATER YEAR ENDING SEPT. 30, 2001

DATE	MAX GH	MIN GH	MEAN GH	MEAN DISCH	SHIFT ADJ	DAWN CORR	STAGE, IN HUNDREDS OF FEET, AT INDICATED HOURS	TEST DIFF: *****	PUNCH INTERVAL: 60 MIN
	<TIME>	<TIME>	<TIME>				0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400		
10/31/2000	2.03	2.01	2.02	31	0.00W	203 202 202 202 202 202 202 202 202 202 202 202	201 201 201 201 201 201 201 201 201 201 201 201	201 201 201 201 201 201 201 201 201 201 201 201	
	<0000> <0759>								
11/01/2000	32	29	2.01	2.01	30	0.00W	202 202 202 202 202 202 202 202 202 202 202 202	201 201 201 201 201 201 201 201 201 201 201 201	201 201 201 201 201 201 201 201 201 201 201 201
	<0000> <0559>								
11/02/2000	31	29	2.01	2.01	30	0.00W	201 201 201 201 201 201 201 201 201 201 201 201	202 202 202 202 202 202 202 202 202 202 202 202	202 202 202 202 202 202 202 202 202 202 202 202
	<0559> <0000>								
11/03/2000	29	29	2.01	2.01	29	0.00W	201 201 201 201 201 201 201 201 201 201 201 201	201 201 201 201 201 201 201 201 201 201 201 201	201 201 201 201 201 201 201 201 201 201 201 201
	<0000> <0000>								
11/04/2000	29	28	2.00	2.00	29	0.00W	201 201 201 201 201 201 201 201 201 201 201 201	200 200 200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200 200 200
	<0000> <0759>								
11/05/2000	29	28	2.00	2.00	29	0.00W	201 201 201 201 201 201 201 201 201 201 201 201	200 200 200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200 200 200
	<0000> <0559>								
11/06/2000	28	28	1.99	2.00	28	0.00W	200 200 200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200 200 200
	<0000> <2259>								
11/07/2000	28	28	1.99	1.99	28	0.00W	199 199 199 199 199 199 199 199 199 199 199 199	199 199 199 199 199 199 199 199 199 199 199 199	199 199 199 199 199 199 199 199 199 199 199 199
	<1459> <0000>								
11/08/2000	28	28	2.00	1.99	2.00	0.00W	199 199 199 199 199 199 199 199 199 199 199 199	200 200 200 200 200 200 200 200 200 200 200 200	200 200 200 200 200 200 200 200 200 200 200 200
	<0459> <0000>								
11/09/2000	41	28	2.00	2.02	31	0.00W	200 201 201 201 201 201 201 201 201 201 201 201	202 203 203 203 203 203 203 203 203 203 203 203	202 202 202 202 202 202 202 202 202 202 202 202
	<2400> <0000>								
11/10/2000	254	41	2.03	2.04	128	-0.02W	212 212 212 213 215 217 220 224 227 229 232 236	242 250 254 259 265 272 277 281 283 284 285 285	232 232 232 232 232 232 232 232 232 232 232 232
	<2259> <0000>								
11/11/2000	254	136	2.51	2.67	189	-0.03W	285 284 283 281 279 277 275 273 272 269 268 266		
	<0000> <2359>								
11/12/2000	136	101	2.37	2.43	117	-0.01W	251 249 249 248 247 246 245 245 245 244 244 243	243 242 242 241 241 240 239 239 239 238 238 237	
	<0000> <2359>								
11/13/2000	101	87	2.37	2.31	95	0.00W	237 237 236 236 235 235 235 235 235 235 235 234	234 233 233 233 232 232 232 232 232 232 232 231	
	<0000> <2359>								
11/14/2000	92	87	2.33	2.32	89	0.00W	232 231 231 231 231 232 232 232 232 232 232 232	232 232 232 232 232 232 232 232 232 232 232 232	
	<1559> <0159>								

Provisional

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION
 PRIMARY COMPUTATIONS OF GAGE HEIGHT AND DISCHARGE
 DATA PROCESSED: 01-12-2001 @ 14:26 BY Jeffries

03075500
 TOUGH DOGNEY RIVER NEAR OAKLAND, MD
 OUTPUT PARAMETER 00050 STORE STATISTICS! 00003
 PROVISIONAL DATA FOR WATER YEAR ENDING SEPT. 30, 2001

DATE	MAX GH	MIN GH	MEAN GH	DISCH /DISCH MEAN	MEAN DISCH	SHIFT ADJ	DATUM CORR	TEST DIFF: ****	PUNCH INTERVAL: 60 MIN	STATE 24 DIST 24	RATINGS USED --
11/15/2000	2.33	2.27	2.30	86	0.00W	232	232	232	232	231	231
92	78	<2359>				231	230	229	228	228	227
11/16/2000	2.27	2.24	2.25	74	0.00W	227	227	227	226	226	226
78	70	<1659>				225	225	225	224	224	224
11/17/2000	2.24	2.23	2.24	70	0.00W	224	224	224	224	224	224
<0000>	<0000>	<1659>				224	224	223	223	223	223
11/18/2000	2.23	2.19	2.21	63	0.00W	222	222	222	222	221	221
68	60	<2400>				220	220	220	220	219	219
<0000>	<0000>	<1959>				219	219	219	218	218	217
11/19/2000	2.19	2.16	2.18	57	0.00W	217	217	217	217	216	216
60	54	<2059>				216	216	215	216	216	216
11/20/2000	2.21	2.09	2.16	53	0.00W	221	221	220	219	217	220
64	41	<1259>	<0659>			221	221	220	219	217	215
11/21/2000	2.19	2.12	2.16	53	0.00W	215	215	214	214	213	217
60	46	<1459>	<0859>			218	218	219	219	218	215
11/22/2000	2.19	2.12	2.15	53	0.00W	214	214	214	213	213	216
60	46	<1759>	<0759>			216	217	217	218	219	217
11/23/2000	2.16	2.14	2.15	52	0.00W	216	216	215	215	214	216
54	50	<0000>	<0659>			216	216	216	216	215	215
11/24/2000	2.15	2.12	2.13	48	0.00W	215	215	215	214	213	215
52	46	<0000>	<1459>			214	213	212	212	212	212
11/25/2000	2.20	2.12	2.14	50	0.00W	212	212	212	212	212	213
62	46	<2359>	<0000>			213	213	214	215	216	219
11/26/2000	2.89	2.20	2.45	125	-0.02W	220	221	223	224	227	232
268	62	<2400>	<0000>			245	246	251	253	256	258
11/27/2000	3.16	2.89	3.09	375	-0.06W	293	297	300	303	306	309
416	268	<1459>	<0000>			315	315	316	315	316	313
11/28/2000	3.09	2.83	2.95	296	-0.06W	308	307	305	304	301	297
370	245	<0000>	<2400>			293	292	291	289	288	285
11/29/2000	2.84	2.73	2.77	223	-0.05W	282	281	280	279	278	276
250	207	<2400>	<1259>			273	273	274	275	277	283

provisional

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION
PRIMARY COMPUTATIONS OF GAGE HEIGHT AND DISCHARGE

DATE PROCESSED: 01-12-2001 @ 14:26 BY Jeffries

INPUT DD: SAR-GRT

03075500 YOUNGBERRY RIVER NEAR OAKLAND, MD
OUTPUT PARAMETER 00060 STORM STATISTIC(S) 00003
PROVISIONAL DATA FOR WATER YEAR ENDING SEPT. 30, 2001

STATE 24 DIST 24
RATINGS USED --
STNRD 16.03/18/1999 (2315)

	DATE	MAX GH	MIN GH	MEAN	MEAN	SHIFT	DEPTH	STAGE, IN HUNDREDS OF FEET, AT INDICATED HOURS	TEST DIFF: ****	PUNCH INTERVAL: 60 MIN	
		/DISCH	/DISCH	MEAN	DISCH	ADJ	CORR	0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200 1300 1400 1500 1600 1700 1800 1900 2000 2100 2200 2300 2400			
11/30/2000	317	241	<0659>	<2400>	280	-0.06W	293	292 291 289 288 287 286 285	300 299 298 296 295	284 283 282	
12/01/2000	241	203	2.82	2.72	2.76	216	-0.04W	281 280 279 278 277 276 275	277 276 275	272 271 270 272 272 272 272	
12/02/2000	<0000>	<2400>	2.72	2.63	2.67	188	-0.03W	271 271 270 270 270 269 273	269 268 268	268 268 268 268 268 268 268	
12/03/2000	203	173	<0659>	<2359>	156	-0.02W	263 262 262 261 260 259 259	264 264 264 264 264 264 264	265 265 265 265 265 265 265	264 264 264 264 264 264 263	
12/04/2000	173	133	2.63	2.50	2.57	159	-0.02W	262 264 266 267 264 261 259	262 261 259	257 256 256 255 255 255 255	258 258 258 258 258 258 255
12/05/2000	<0000>	<1159>	2.67	2.37	2.58	188	101	252 256 260 263 261 264 264	262 260 264	258 256 256 255 255 255 254	258 258 258 258 258 258 254
12/06/2000	145	115	2.54	2.43	2.48	129	-0.02W	253 253 252 251 251 251 251	250 250 249	249 248 248 248 248 248 247	249 249 249 248 248 248 243
12/07/2000	133	104	2.50	2.38	2.43	115	-0.01W	244 244 243 242 241 240 240	244 243 242 241 240 240 240	239 239 239 239 239 239 239	239 239 239 239 239 239 239
12/08/2000	115	97	2.43	2.35	2.39	105	0.00W	239 238 238 237 236 235 235	239 238 238 237 236 235 235	241 240 240 240 240 240 240	241 240 240 240 240 240 240
12/09/2000	106	101	2.40	2.37	2.39	105	0.00W	240 240 240 239 239 239 239	240 240 240 239 239 239 239	241 240 240 239 239 239 239	241 240 240 239 239 239 239
12/10/2000	101	82	<0000>	<2400>	95	0.00W	236 236 236 235 235 234 234	235 235 235 235 234 233 233	235 235 235 235 234 233 233	235 235 235 235 234 233 230	
12/11/2000	104	62	2.38	2.20	2.29	83	0.00W	228 227 226 224 223 221 220	228 227 226 224 223 221 220	229 229 228 227 226 225 225	229 229 228 227 226 225 225
12/12/2000	94	87	<2400>	<0159>	88	0.00W	232 231 231 231 231 231 231	232 231 231 231 231 231 231	231 231 231 231 231 231 231	231 231 231 231 231 231 231	
12/13/2000	184	94	<1659>	<0000>	144	-0.02W	235 236 238 239 240 241 241	235 236 238 239 240 241 241	244 244 244 244 244 244 244	247 247 247 247 247 247 247	
12/14/2000	177	78	<1659>	<0759>	130	-0.01W	255 252 247 242 237 232 229	247 253 257 262 264 263 261	259 259 259 259 259 259 259	257 257 257 257 257 257 255	
12/15/2000	149	78	<1659>	<0000>	983	-0.01W	256 260 264 271 281 299 323	256 260 264 271 281 299 323	352 352 352 352 352 352 352	382 382 382 382 382 382 382	

Provisional

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION
 PRIMARY COMPUTATIONS OF GAGE HEIGHT AND DISCHARGE
 DATE PROCESSED: 01-12-2001 @ 14:26 BY Jeffries
 INPUT DD: SAT-GHT

STATE 24 DIST 24
 RATING USED --
 STARD 18.0 03/18/1999 (2315)

0307560
 YOUNGSTROMME RIVER NEAR OAKLAND, MD
 OUTPUT PARAMETER 00060 STORE STATISTIC(S) 00003
 PROVISIONAL DATA FOR WATER YEAR ENDING SEPT. 30, 2001

	MAX GH	MIN GH	MEAN	MEAN	SHIFT	DATUM	STAGE, IN HUNDREDFEET OF FEET*, AT INDICATED HOURS	TEST DIFF: ****	PUNCH INTERVAL: 60 MIN
	DATE /DISCH	/DISCH	MEAN	DISCH	ADD	CORR	0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200	BATTINGS USED --	
12/15/2000	4.19	3.52	3.78	938	0.00W		414 410 407 403 399 394 391 387 384 380 377 374		
12/19/2000	727	727	727				371 369 367 364 363 361 360 358 356 355 353 352		
<0000>	<2400>								
12/16/2000	3.52	3.34	3.40	614	-0.01W		350 348 346 344 343 342 340 339 337 336 335 334		
12/17/2000	563	563	563				334 332 330 328 326 324 322 320 318 316 314 313		
<0000>	<1259>								
12/18/2000	3.91	3.48	3.75	915P	0.00W		352 350 348 346 344 343 342 340 339 337 336 335		
12/19/2000	1040	693	866.5				334 332 330 328 326 324 322 320 318 316 314 313		
<1759>	<0000>								
12/19/2000	3.80	3.41	3.57	769	0.00W		378 375 372 371 368 366 364 362 360 359 357 356		
12/20/2000	625	625	625				354 352 351 350 348 347 346 345 344 343 342 341		
<0000>	<2400>								
12/21/2000	3.41	3.20	3.31	534	-0.03W		340 339 338 337 336 335 334 333 332 331 330 329		
12/21/2000	625	449	502				331 329 328 327 326 325 324 323 322 321 320 319		
<0000>	<2359>								
12/20/2000	3.20	3.04	3.11	388	-0.05W		320 319 317 316 315 314 312 310 308 307 305 304		
12/21/2000	449	343	401				304 305 306 305 306 305 304 303 302 301 300 299		
<0000>	<1159>								
12/21/2000	3.15	2.92	3.06	356	-0.05W		314 313 312 311 310 309 308 307 306 305 304 303		
12/22/2000	282	282	282				305 304 303 302 301 300 299 298 297 296 295 294		
<0559>	<2400>								
12/22/2000	2.92	2.60	2.79	231	-0.05W		391 389 388 387 386 385 384 383 382 381 380 379		
<0000>	<2400>								
12/23/2000	2.76	2.55	2.65	181	-0.03W		279 277 276 275 274 273 272 271 270 269 268 267		
12/23/2000	220	149	184				265 267 274 273 272 271 270 269 268 267 266 265		
<1659>	<0559>								
12/24/2000	2.72	2.61	2.68	189	-0.01W		271 270 269 268 267 266 265 264 263 262 261 260		
12/24/2000	203	166	180				268 267 266 265 264 263 262 261 260 259 258 257		
<0000>	<2400>								
12/25/2000	2.61	2.50	2.55	148	-0.02W		260 260 259 258 257 256 255 254 253 252 251 250		
12/25/2000	166	133	144				253 254 256 255 256 255 254 253 252 251 250 249		
<0000>	<1059>								
12/26/2000	2.51	2.45	2.49	130	-0.02W		250 249 248 247 246 245 244 243 242 241 240 239		
12/26/2000	136	126	126				251 251 251 251 251 250 249 248 247 246 245 244		
<1259>	<0759>								
12/27/2000	2.49	2.47	2.48	129	-0.01W		248 248 248 247 246 245 244 243 242 241 240 239		
12/27/2000	130	126	126				248 248 248 247 246 245 244 243 242 241 240 239		
<0059>	<2159>								
12/28/2000	2.47	2.43	2.46	123	-C.01W		247 247 247 246 245 244 243 242 241 240 239 238		
12/28/2000	126	115	115				247 247 247 246 245 244 243 242 241 240 239 238		
<0000>	<2259>								
12/29/2000	2.43	2.40	2.41	109	-C.01W		243 242 242 241 241 240 239 238 237 236 235 234		
12/29/2000	115	106	106				242 241 241 241 241 240 239 238 237 236 235 234		
<0000>	<0759>								

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY - WATER RESOURCES DIVISION
PRIMARY COMPUTATIONS OF GAGE HEIGHT AND DISCHARGE
DATE PROCESSED: 01-12-2001 @ 14:26 BY Jeffries
INPUT DD: SAT-GHT
OUTPUT PARAMETER 00060 STORE STATISTIC(S) 00003
PROVISIONAL DATA FOR WATER YEAR ENDING SEPT. 30, 2001

03075500

Youghiogheny River Near OAKLAND, MD

TEST DIFF: ***** PUNCH INTERVAL: 60 MIN

MAX GH	MIN GH	MEAN GH	MEAN DISCH	SHIFT	DATUM	STAGE, IN HUNDREDS OF FEET, AT INDICATED HOURS
DATE	/DISCH	/DISCH	DISCH	ADJ	ADJ CORR	0100 0200 0300 0400 0500 0600 0700 0800 0900 1000 1100 1200
12/30/2000	2.40	2.37	2.39	105	0.00W	240 240 240 240 240 240 239 239 239 239 239 239
106	101	<TIME>	GH			239 239 239 239 239 239 238 238 238 238 237 237
<0000>	<2059>					237 237 237 237 237 237 236 236 236 236 236 237
12/31/2000	2.37	2.35	2.36	99	0.00W	236 236 236 236 236 236 235 235 235 235 235 236
101	97	<0000>	<2059>			235 235 235 235 235 235 235 235 235 235 235 235
PERIOD	4.53	1.98				TIME CORRECTION 0.0
	1470	27				

NOTE: SYMBOLS USED ABOVE HAVE THE FOLLOWING MEANINGS --
P - DAILY SUMMARY IS FOR AN INCOMPLETE DAY
W - SHIFT VARIES BY TIME AND VALUE - V SHIFT

provisional



APPENDIX D

RECORD OF

DISSOLVED OXYGEN MONITORING

(Instrument Calibrated to 2000 ft. MSL)

DISSOLVED OXYGEN MONITORING LOG

10/02 '00 09:02

ID:SITHE

DATE	INSTRUMENT CALIBRATION		DO MEASUREMENTS DOWNSTREAM FROM WEIR				NO. UNITS GENERATING	TIMES OF GENERATION	SLICE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATOR TAILRAC ELEV
	CAL.	READINGS	TIME	TEMP °C	DO (mg/l)	DO (mg/l)					
6-1-00							2@ 100%	12:31 TO 12:37	Hill OPEN	2022.6	2028.
6-2	10:25	26.8	7.04	10:30	14.0	8.97	2@ 100%	13:45 - 15:45			
6-3							2@ 100%	10:00 - 13:00 13:30 / 13:41 - 14:02 / 14:03	"	2022.3	2028.
6-4							2@ 100%	10:00 - 13:00	"	"	"
6-5	10:25	22.2	7.09	10:30	15.0	8.92	2@ 100%	10:00 - 7:30 24:00 UNSCHEDULED/ed	"	2023.1	2028.
6-6							2@ 100%	UNSCHEDED	"	"	
6-7							2@ 100%	0:00 - 24:00	"		2028.
6-8							2@ 100%	0:00 - 2:400	"		2028.
6-9							2@ 100%	0:00 - 2:400	"		2028.
6-10							2@ 100%	0:00 - 27:05 unscheded 10:00 - 13:00 scheduled 10:00 - 13:00 unscheded	"	2023.1	2028.
6-11							2@ 100%	NONE	"	2023.1	
6-12	10:25	28.9	7.05	10:30	15.1	7.82	2@ 100%	16:00 - 19:00 unscheded 20:45 - 22:00	"	2023.1	2028.
6-13							2@ 100%	10:00 - 13:00	"	2022.3	2028.
6-14							2@ 100%	17:30 - 24:00			
6-15							2@ 100%	24:00 - 07:00			
6-16	10:25	29.3	6.95	10:30	15.4	7.68	2@ 100%	10:00 - 13:00	"		
6-17							2@ 100%	11:03 - 13:03			
6-18							2@ 100%	UNSCHEDED	"	2022.3	2028.
6-19	10:25	25.2	25.2	10:30	15.6	.07	2@ 100%	15:00 - 17:00 17:00 - 19:00	"	2022.3	2028.
6-20							2@ 100%	16:38 - 17:00 17:00 - 18:00	"	2022.2	2028.

FAX:301-387-5809

PAGE

(Instrument Calibrated to 2000 ft. MSL)

JUN 21 2000 DISSOLVED OXYGEN MONITORING LOG JUL 10 2000

10/02 09:01

DATE	INSTRUMENT CALIBRATION	DO MEASUREMENTS DOWNSTREAM FROM WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SERVICE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATING TAILRACE ELEV
TIME	CAL. READINGS	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)			
6-21	—	—	—	—	—	—	All open	2022.2	2028.1
6-22	—	—	—	—	—	—	All open	2022.2	—
6-23	10:25	26.5	7.44	10:35	15.6	7.17	2 @ 100%	10:00 - 13:00	10:00 - 13:00 unscheduled
6-24	station not attended	—	—	—	—	—	None	All open	2022.2
6-25	—	—	—	—	—	—	All open	2022.2	2028.1
6-26	10:25	27.4	7.55	10:35	15.8	6.68	2@ 100%	10:00 -	10:00 - 13:00 unscheduled
6-27	—	—	—	—	—	—	All open	2022.2	2028.1
6-28	—	—	—	—	—	—	None	All open	2022.1
6-29	—	—	—	—	—	—	None	All open	2022.1
6-30	10:25	23.9	7.81	10:35	15.5	6.31	2@ 100%	10:00 - 13:00	10:00 - 13:00 unscheduled
7-1	station unattended	—	—	—	—	—	2@ 100%	10:00 - 13:00	10:00 - 13:00 unscheduled
7-2	—	—	—	—	—	—	2@ 100%	10:00 - 13:00	10:00 - 13:00 unscheduled
7-3	10:25	26.5	7.33	10:30	15.8	6.39	2@ 100%	10:00 - 13:00	10:00 - 13:00 unscheduled
7-4	—	—	—	—	—	—	2@ 100%	10:00 - 13:00	10:00 - 13:00 unscheduled
7-5	—	—	—	—	—	—	2@ 100%	10:00 - 13:00	10:00 - 13:00 unscheduled
7-6	—	—	—	—	—	—	2@ 100%	12:00 - 13:00	12:00 - 13:00 unscheduled
7-7	10:25	23.0	7.48	10:33	16.2	6.58	2@ 100%	10:00 - 13:00	10:00 - 13:00 unscheduled
7-8	station unattended	—	—	—	—	—	2@ 100%	15:00 - 16:00	15:00 - 16:00 unscheduled
7-9	—	—	—	—	—	—	2@ 10%	17:30 - 18:30	17:30 - 18:30 unscheduled
7-10	10:25	24.9	7.52	10:30	15.9	6.02	2@ 100%	10:00 - 13:00	10:00 - 13:00 unscheduled

FAX:301-387-5809

PAGE

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Instrument Calibrated to 2000 ft. MSL)

DISSOLVED OXYGEN MONITORING LOG

10-02 '00 09:01

ID:SITHE

PAGE

6

TE	INSTRUMENT CALIBRATION	DO MEASUREMENTS			NO. UNITS	TIMES OF GENERATION	SERVICE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATING TAILRACE ELEV
TIME	CAL. READINGS	DOWNTSTREAM FROM WEIR	TEMP °C	DO (mg/l)					
7-11							All open	2024.9	—
7-12							All open	2023.5	—
7-13						10:38-11:01 2 @ 100%	1304-1335	All open	2022.6
7-14 10:25	22.0 8.07	10:30	16.2	6.02	2 @ 100%	20:38-21:35 1000 - 1300	All open	2022.1	2028.1
7-15	<i>station not att ended</i>						All open	2022.2	2028.1
7-16							All open	—	—
7-17 10:25	20.8 8.31	10:30	16.5	5.65	2 @ 100%	10:00-13:45 20:45-21:00	All open 2 closed	2022.3	2028.1
7-18							2 open 1FT	2022.1	—
7-19							2 open 1FT 2 open 1FT	2022.0	—
7-20							2 closed	2022.9	—
7-21 10:15	18.8 8.61	10:25	16.6	7.22	2 @ 100%	09:25-15:15	2 closed 2 open 1FT	2023.0	2028.5
7-22	<i>station unaffected</i>						2 closed 2 open 1FT	—	—
7-23							2 closed 2 open 1FT	—	—
7-24 10:30	22.0 8.11	10:35	16.9	7.07		10:00 - 13:00	2 closed 2 open 1FT	2022.2	2028.5
7-25							2 closed	2022.1	—
7-26						2 @ 100% 2 @ 100%	0805 - 08:13 unscheduled 08:15 - 2000	closed 2 open 1FT	2022.1
7-27							2 closed	2022.0	2028.5
7-28 10:30	22.8 8.31	10:35	17.3	6.85	2 @ 100%	10:00 - 13:00 13:00 - unsh.	2 closed 2 open 1FT	2022.0	2028.5
7-29	<i>station unaffected</i>						2 closed 2 open 1FT	2022.0	2028.5
7-30							2 closed 2 open 1FT	—	—

(Instrument-Calibrated to 2000 ft. MSL)

DISSOLVED OXYGEN MONITORING LOG

DATE	INSTRUMENT CALIBRATION CAL. READINGS	DO MEASUREMENTS DOWNSTREAM FROM WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SERVICE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATING TAILRACE ELEV
TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)				
7-31 10:25	26.7	7.44	10:30	17.4	6.83	2@ 100%	10:00 - 19:29 Thru 29 min	2 closed	2022.1 2028.5
8-1	—	—	—	—	—	—	—	2 open 1/2	—
8-2	—	—	—	—	—	—	—	2 open 1/2	2022.4
8-3	—	—	—	—	—	—	—	2 open 1/2	—
8-4 10:25	25.5	7.59	10:30	17.3	6.54	2@ 100%	10:00 - 13:00	2 closed	2022.1
8-5	—	—	—	—	—	—	—	2 open 1/2	—
8-6	—	—	—	—	—	—	—	2 closed	—
8-7 10:25	26.9	7.38	10:30	17.0	6.37	2@ 100%	08:17 - 17:06 21:35 - 21:50	2 closed	2022.1 2028.5
8-8	—	—	—	—	—	2@ 100%	08:40 - 19:06 On schedule	2 closed	2022.2 2028.5
8-9	—	—	—	—	—	2@ 100%	13:30 - 22:20 Unscheduled	2 closed	2022.2 2028.5
8-10	—	—	—	—	—	2@ 100%	12:20 - 18:35 Unscheduled	2 closed	2022.0 2028.5
8-11 10:20	23.2	7.86	10:25	17.8	6.68	2@ 100%	08:17 - 19:38 Unscheduled	2 closed	2022.1 2028.5
8-12	—	—	—	—	—	2@ 100%	08:27 - 09:38 09:01 - 11:05	2 closed	2022.0 2028.5
8-13	—	—	—	—	—	—	—	2 closed	—
8-14 10:35	21.3	8.06	10:30	18.3	6.16	2@ 100%	10:00 - 13:00	2 open 1/2	2021.9 2028.5
8-15	—	—	—	—	—	2@ 100%	13:43 - 18:50 Unscheduled	2 closed	2021.8 2028.5
8-16	—	—	—	—	—	2@ 100%	08:31 - 11:00 13:00 - 14:00	2 closed	2021.8 2028.5
8-17	—	—	—	—	—	—	—	2 closed	2021.8 —
8-18 10:25	26.7	7.28	10:30	18.8	6.49	2@ 100%	10:00 - 13:00 Unscheduled	2 closed	2021.8 2028.5
8-19	—	—	—	—	—	—	—	2 open 1/2	—

JUL 31 2000

AUG 1 2000

10/02

00:06:00

ID: SITE

DEEP CREEK STATION
DISSOLVED OXYGEN MONITORING LOG

(Instrument Calibrated to 2000 ft. MSL)

DATE	INSTRUMENT CALIBRATION			DO MEASUREMENTS			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATING TAILRACE ELEV
	CAL.	READINGS	DOWNSTREAM FROM WEIR	TIME	TEMP °C	DO (mg/l)					
3-20							2@ 100%	20:23 - 20:28	2 closed	2021.5	2028.5
3-21	10:25	22.8	7.95	10:30	18.7	6.77	2@ 100%	10:00 - 13:00	2 closed	2021.8	2028.5
3-22									2 closed		
3-23							2@ 100%	14:00 - 14:17	2 closed	2021.7	2028.5
3-24									2 open 1/2	2021.7	2028.5
3-25	10:25	21.8	7.74	10:30	18.6	6.51	2@ 100%	10:00 - 13:00	2 open 1/2	2021.8	2028.5
3-26								17:15 - 18:45	2 closed	2021.8	2028.5
3-27								unscheduled	2 open 1/2	2021.8	2028.5
3-28	10:25	22.4	8.04	10:30	18.9	6.86	2@ 100%	10:00 - 13:10	2 open 1/2	2021.7	2028.5
3-29									2 closed		
3-30									2 open 1/2	2021.7	2028.5
3-31	09:25	25.5	7.56	09:30	17.7	6.70	2@ 100%	09:00 - 15:00	2 closed	2021.7	2028.5
7-1	10:25	24.3	7.75	10:30	17.5	6.56	2@ 100%	10:00 - 13:00	2 closed	2021.7	2028.5
7-2							2@ 100%	10:00 - 16:00	2 open 1/2	2021.7	2028.5
7-3									2 open 1/2	2021.7	2028.5
7-4							2@ 100%	12:00 - 16:20	2 closed	2021.7	2028.5
7-5									2 closed	2021.7	2028.5
7-6									2 open 1/2	2021.8	2028.5
7-7									2 open 1/2	2021.8	2028.5
7-8	10:25	24.6	7.81	10:30	17.6	6.59	2@ 100%	10:00 - 13:00	2 closed	2021.8	2028.5
10/02	00:59										

FAX:301-387-5809

ID: SITE

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JEEP CREEK STATION

DISSOLVED OXYGEN MONITORING LOG

(Instrument Calibrated to 2000 ft. MSL)

DATE	INSTRUMENT CALIBRATION			DO MEASUREMENTS DOWNSTREAM FROM WEIR			NO. UNITS GENERATING	TIMES OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATING TAILRACE ELEV
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C	DO (mg/l)					
9-9	10:25	25.6	7.58	10:30	19.1	7.41	2@100%	10:00 - 13:00 12:36 - 16:00 un-sched/ed	2 closed 2 open 1/2	2 open 1/2	2021.8
9-10									2 closed	2 open 1/2	—
9-11									2 closed	2 open 1/2	—
9-12									2 closed	2 open 1/2	—
9-13									2 closed	2 open 1/2	2028.5
9-14									2 closed	2 open 1/2	—
9-15	10:25	20.2	8.30	10:30	18.8	7.48	2@100%	10:00 - 13:00	2 closed 2 open 1/2	2 open 1/2	2021.8
9-16									2 closed	2 open 1/2	—
9-17									2 closed	2 open 1/2	—
9-18	10:40	19.6	8.46	10:45	18.1	7.60	2@100%	10:00 - 13:00	2 closed	2 open 1/2	2021.7
9-19									2 closed	2 open 1/2	2028.5
9-20									2 closed	2 open 1/2	2028.5
9-21									2 closed	2 open 1/2	2028.5
9-22	10:25	20.8	8.36	10:30	17.9	7.70	2@100%	09:55 - 13:00	2 open 1/2	2 open 1/2	2021.7
9-23									2 closed	2 open 1/2	—
9-24									2 closed	2 open 1/2	—
9-25	10:25	23.5	7.86	10:30	18.1	8.42	2@100%	08:00 - 13:00	2 closed	2 open 1/2	2021.6
9-26									2 closed	2 open 1/2	2024.0
9-27									2 closed	2 open 1/2	2023.0
9-28									2 closed	2 open 1/2	2022.5

SEP 04 2000

SEP 28 2000

ID: SITE ID: SITE ID: SITE ID: SITE ID: SITE

(Instrument Calibrated to 2000 ft. MSL)

DISSOLVED OXYGEN MONITORING LOG

ATE	INSTRUMENT CALIBRATION		DO MEASUREMENTS DOWNSTREAM FROM WEIR			NO. UNITS GENERATING DO (mg/l)	TIME OF GENERATION	SLUICE GATE POSITION	NON-OPERATING TAILRACE ELEV	OPERATING TAILRACE ELEV
	TIME	TEMP °C	DO (mg/l)	TIME	TEMP °C					
129	10:25	22.2	7.89	10:30	16.7	7.64	2 @ 100%	13'cc	2022.0	2925.5
7-30	-	-	-	-	-	-	-	-	2022.3	-

SEP 2000